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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

WORK: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward empunagara.

Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials					
Cement	Fineness by dry sieving	One Test		1	1
	Finess by Air permeablity method	One Test		1	1
	Density	One Test		1	1
	Standard Consistency	One Test		1	1
	Initial Setting time	One Test		1	1
	Final Setting time	One Test		1	1
	Soundness (Le Chatelier's Method)	One Test		1	1
	Compressive Strength	One Test		1	1
Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
	Flakiness Index	One Test		1	1
	Elongation Index	One Test		1	1
	Specific Gravity	One Test		1	1
	Bulk Density(Loose)	One Test		1	1
	Bulk Density(Compacted)	One Test		1	1
	Water Absorption	One Test		1	1
Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
	Flakiness Index	One Test		1	1
	Elongation Index	One Test		1	1
	Specific Gravity	One Test		1	1
	Bulk Density(Loose)	One Test		1	1
	Bulk Density(Compacted)	One Test		1	1
	Water Absorption	One Test		1	1
	Aggregate crushing Value	One Test		1	1
	Aggregate Impact Value	One Test		1	1
Fine aggregate	SIEVE ANALYSIS	One Test		1	1
	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
Steel	Bend test	One Test		1	1
	Tensile Test	One Test		1	1
	Yield Test	One Test		1	1
	ReBend test	One Test		1	1
Precast (100mm)	Core Compressive Strength	One Test		1	1
	Corrected Cylinder Compressive Strength	One Test		1	1
	Equivalent Cube Compressive Strength	One Test		1	1
RCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	134.03	12	12
Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	14 set /500-600 cum	473.59	24	24

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-04-23-23** **Date: 15-09-21**
Project Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Date of Receipt	:	11-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.32	–
2	Finess by Air permeablity method (m^2/kg,Min)	271.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0 mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-04-23-23 **Date: 12-10-21**
Project Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Date of Receipt	:	11-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

The results obtained are satisfactory as per standard requirements.

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Quality Manager

Page 1/1
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-04-23-23 **Date: 16-09-21**
Project Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Date of Receipt	:	11-09-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	754	754	5.0	95.0	90-100
3	20 mm	6592	7346	49.0	51.0	30-70
4	10 mm	4759	12105	80.7	19.3	10-35
5	4.75 mm	2595	14700	98.0	2.0	0-5
6	Pan	300	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-23-23 Date: 16-09-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.46	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.18	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-04-23-23 **Date: 15-09-21**
Project Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/143/2019-20
Date of Receipt	:	11-09-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	223	223	4.5	95.5	90-100
3	10 mm	2174	2397	47.9	52.1	25-55
4	4.75 mm	2271	4668	93.4	6.6	0-10
5	Pan	332	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-23-23 Date: 15-09-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.59	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

ab ID	:	**CP-2022-04-23-23** **Date: 15-09-21**
roject Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
gency	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
stomer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
te of Receipt	:	11-09-21
mple Type	:	Fine Aggregate
ference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
te of test	:	13-09-21
al weight taken	:	1000 grams

	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
	10 mm	0	0	0.0	100.0	100	100	100	100
	4.75 mm	74	74	7.4	92.6	90-100	90-100	90-100	95-100
	2.36 mm	128	202	20.2	79.8	60-95	75-100	85-100	95-100
	1.18 mm	214	416	41.6	58.4	30-70	55-90	75-100	90-100
	600 micron	215	631	63.1	36.9	15-34	35-59	60-79	80-100
	300 micron	174	805	80.5	19.5	5-20	8-30	12-40	15-50
	150 micron	155	960	96.0	4.0	0-10	0-10	0-10	0-15
	Pan	40	1000	100.0	0.0	---	---	---	---

sult :**The tested Sample Conforms to Grading Zone II**

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TEST REPORT OF FINE AGGREGATE

ID : CP-2022-04-23-23

Date: 15-09-21

PHYSICAL PROPERTIES

no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.18	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	3.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

: **CP-2022-04-23-23** **Date: 14-09-21**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 11-09-21

Type : Sunvik

ce to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

est: : 13-09-21

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	10	0.612	532	665	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	12	0.885	555	672	20.0%	Satisfactory	Satisfactory

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

	:	**CP-2022-04-23-23**	**Date: 17-09-21**
ame	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.	
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.	
r's Reference	:	BBMP/EE/BTP/WO/143/2019-20	
eceipt	:	11-09-21	
ype /Size	:	Precast Cover Slab	
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
st	:	13/09/2021	

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.49	100.49	1.288	4475	82.4	18.4	17.1	21.4
Cover Slab-2	75.52	100.47	1.386	4478	81.7	18.2	17.0	21.2
Cover Slab-3	75.51	0.51	1.285	4477	83.5	18.6	17.3	21.7

ntained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 16/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 11-10-21

er ID : Drain Bottom Raft - Muniramu Colony Cross Road 1

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 16/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	149.30 X 150.02 X 151.07	22399	8.764	415.2	18.5	18.6
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	151.76 X 149.48 X 149.19	22684	8.235	429.2	18.9	
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	151.80 X 150.00 X 151.31	22770	8.143	415.7	18.3	

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 06/11/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
ner's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	11-10-21
ner ID	:	Drain Bottom Raft - Muniramu Colony Cross Road 1
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	06/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	149.88 X 150.68 X 149.41	22583	8.523	535.6	23.7	23.1
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	151.56 X 151.51 X 151.19	22963	8.537	534.9	23.3	
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	149.32 X 149.35 X 151.93	22302	8.262	499.3	22.4	

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 16/10/2021

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 11-10-21

ID : Drain Bottom Raft - Muniramu Colony Cross Road 1

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 16/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	151.71 X 151.16 X 151.59	22932	8.503	418.1	18.2	18.6
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	151.73 X 151.51 X 149.61	22989	9.038	427.5	18.6	
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	16/10/2021	150.63 X 150.97 X 151.59	22741	8.673	431.9	19.0	

obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 06/11/2021**
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	11-10-21
ID	:	Drain Bottom Raft - Muniramu Colony Cross Road 1
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	06/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	149.56 X 150.52 X 151.65	22512	8.819	520.6	23.1	23.1
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	150.50 X 150.73 X 151.59	22685	9.084	531.4	23.4	
Drain Bottom Raft - Muniramu Colony Cross Road 1	M20	09/10/2021	06/11/2021	151.26 X 150.82 X 150.90	22813	9.026	516.4	22.6	

sults obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

****End of Report****

: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 18/10/2021**

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 12-10-21

ID : Drain Bottom Raft - Kaltharu Layout Cross Road

Type /Size : 150X150X150 mm

Grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 18/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	17/10/2021	151.73 X 149.93 X 149.53	22748	8.601	409.9	18.0	18.3
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	17/10/2021	149.02 X 150.77 X 151.84	22468	8.964	422.8	18.8	
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	17/10/2021	150.66 X 149.60 X 150.41	22539	9.088	407.4	18.1	

obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-04-23-23
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	12-10-21
ID	:	Drain Bottom Raft - Kaltharu Layout Cross Road
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
est	:	08/11/2021

Date: 08/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	07/11/2021	150.24 X 149.20 X 150.67	22415	8.108	528.7	23.6	22.9
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	07/11/2021	151.73 X 150.92 X 151.81	22899	8.717	515.4	22.5	
Bottom Raft - Kaltharu Layout Cross Road	M20	10/10/2021	07/11/2021	150.93 X 149.23 X 151.18	22525	8.583	512.3	22.7	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 18/10/2021**

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 13-10-21

ID : Drain Side Wall - Muniramu Colony Cross Road 1

Type /Size : 150X150X150 mm

Grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 18/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	18/10/2021	150.61 X 151.29 X 151.13	22786	8.125	431.2	18.9	18.7
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	18/10/2021	149.51 X 151.72 X 149.31	22683	8.973	417.5	18.4	
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	18/10/2021	150.29 X 151.62 X 151.83	22786	9.026	430.5	18.9	

obtained are satisfactory as per standard requirements.

AEE (WRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 08/11/2021**
me	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Reference	:	BBMP/EE/BTP/WO/143/2019-20
eipt	:	13-10-21
ID	:	Drain Side Wall - Muniramu Colony Cross Road 1
/Size	:	150X150X150 mm
ade/Age	:	M20 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
	:	08/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	08/11/2021	151.31 X 150.65 X 150.90	22796	8.354	529.7	23.2	23.2
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	08/11/2021	151.18 X 149.38 X 151.26	22583	8.826	529.4	23.4	
Drain Side Wall - Muniramu Colony Cross Road 1	M20	11/10/2021	08/11/2021	151.03 X 149.27 X 150.49	22544	8.134	516.8	22.9	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 19/10/2021**

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 16-10-21

ID : Drain Side Wall -Velagani Main Road

/Size : 150X150X150 mm

/Age : M20 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Side Wall - Main Road	M20	12/10/2021	19/10/2021	151.34 X 151.30 X 150.45	22898	9.010	426.3	18.6	18.4
Side Wall - Main Road	M20	12/10/2021	19/10/2021	150.14 X 150.95 X 151.92	22663	8.213	412.6	18.2	
Side Wall - Main Road	M20	12/10/2021	19/10/2021	149.35 X 149.29 X 151.55	22298	9.041	409.5	18.4	

tained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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GHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 09/11/2021

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 16-10-21

ID : Drain Side Wall -Velagani Main Road

Type /Size : 150X150X150 mm

Grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 09/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Velagani Main Road	M20	12/10/2021	09/11/2021	151.36 X 150.38 X 149.51	22761	8.930	544.9	23.9	23.1
Drain Side Wall - Velagani Main Road	M20	12/10/2021	09/11/2021	151.42 X 151.39 X 149.20	22923	9.087	528.2	23.0	
Drain Side Wall - Velagani Main Road	M20	12/10/2021	09/11/2021	150.82 X 151.72 X 149.28	22883	8.975	508.2	22.2	

obtained are satisfactory as per standard requirements.

AEE (WRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: *CP-2022-04-23-23*

Date: 20/10/2021

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 16-10-21

ID : Drain Side Wall - Kaltharu Layout Cross Road

/Size : 150X150X150 mm

/Age : M20 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 20/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	20/10/2021	149.33 X 150.81 X 149.10	22521	8.448	412.6	18.3	18.5
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	20/10/2021	149.45 X 150.93 X 150.03	22556	8.620	414.6	18.4	
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	20/10/2021	150.44 X 150.16 X 149.61	22590	9.039	426.2	18.9	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 10/11/2021

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 16-10-21

ID : Drain Side Wall - Kaltharu Layout Cross Road

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 10/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	10/11/2021	149.86 X 149.23 X 149.95	22364	8.619	528.2	23.6	23.2
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	10/11/2021	150.74 X 150.50 X 151.09	22686	8.144	531.3	23.4	
Drain Side Wall - Kaltharu Layout Cross Road	M20	13/10/2021	10/11/2021	151.66 X 149.76 X 150.67	22713	8.479	514.9	22.7	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 25/10/2021

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 20-10-21

ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

rade/Age : M30 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 25/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	149.91 X 149.58 X 151.95	22425	8.265	606.9	27.1	27.0
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	151.27 X 149.60 X 151.12	22630	8.235	621.2	27.4	
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	151.78 X 150.86 X 149.08	22897	8.710	609.4	26.6	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 15/11/2021

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

ipt : 20-10-21

ID : Cement Concrete Pavement - Rajarajeshwari Main Road

/Size : 150X150X150 mm

de/Age : M30 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 15/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement - eshwari Main Road	M30	18/10/2021	15/11/2021	150.11 X 151.53 X 149.22	22745	8.369	764.7	33.6	33.0
ent Concrete Pavement - eshwari Main Road	M30	18/10/2021	15/11/2021	150.56 X 150.32 X 150.62	22631	8.168	751.3	33.2	
ent Concrete Pavement - eshwari Main Road	M30	18/10/2021	15/11/2021	151.51 X 151.83 X 150.86	23003	8.773	740.9	32.2	

tained are satisfactory as per standard requirements.

AEE (VRP) SD

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23

Date: 25/10/2021

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 20-10-21

ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

Grade/Age : M30 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 25/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	151.07 X 149.01 X 151.42	22512	9.015	609.8	27.1	27.2
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	150.54 X 149.11 X 149.81	22447	8.725	621.3	27.7	
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	149.40 X 149.34 X 149.76	22311	8.619	598.7	26.8	

obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 15/11/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

mer's Reference : BBMP/EE/BTP/WO/143/2019-20

f Receipt : 20-10-21

mer ID : Cement Concrete Pavement - Rajarajeshwari Main Road

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 28 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 15/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	150.98 X 151.95 X 151.69	22940	8.713	779.6	34.0	33.3
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	151.25 X 150.42 X 149.11	22752	8.488	748.3	32.9	
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	151.98 X 150.92 X 151.25	22937	8.913	754.2	32.9	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 25/10/2021**

: Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 20-10-21

ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

Grade/Age : M30 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 25/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	151.72 X 151.58 X 150.65	22998	8.226	633.2	27.5	27.2
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	151.70 X 151.73 X 150.34	23018	8.938	628.4	27.3	
ment Concrete Pavement - rajeshwari Main Road	M30	18/10/2021	25/10/2021	150.32 X 151.28 X 149.93	22741	8.878	611.4	26.9	

obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 15/11/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 20-10-21

ID : Cement Concrete Pavement - Rajarajeshwari Main Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 15/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	149.11 X 149.73 X 150.24	22327	8.243	743.7	33.3	32.9
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	151.86 X 151.69 X 149.21	23036	8.143	760.5	33.0	
Cement Concrete Pavement - Rajarajeshwari Main Road	M30	18/10/2021	15/11/2021	151.48 X 151.39 X 151.38	22934	8.302	744.2	32.4	

ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 26/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 21-10-21

er ID : Cement Concrete Pavement - Asraya Layout 6th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 26/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	149.22 X 151.18 X 150.31	22559	9.045	623.6	27.6	27.3
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	151.05 X 151.69 X 150.09	22912	8.573	636.7	27.8	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	150.36 X 150.81 X 151.53	22676	8.119	602.0	26.5	

**ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 16/11/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 21-10-21

er ID : Cement Concrete Pavement - Asraya Layout 6th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 16/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	149.49 X 151.62 X 150.04	22667	8.997	764.2	33.7	33.1
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.16 X 149.57 X 150.94	22460	8.379	747.9	33.3	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.24 X 150.40 X 150.87	22596	8.124	731.6	32.4	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 26/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 21-10-21

er ID : Cement Concrete Pavement - Asraya Layout 6th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 26/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Cement Concrete Pavement - Asraya yout 6th Cross Road	M30	19/10/2021	26/10/2021	151.59 X 149.76 X 149.19	22702	8.442	618.8	27.3	26.8
Cement Concrete Pavement - Asraya yout 6th Cross Road	M30	19/10/2021	26/10/2021	151.56 X 151.36 X 151.22	22941	8.666	615.2	26.8	
Cement Concrete Pavement - Asraya yout 6th Cross Road	M30	19/10/2021	26/10/2021	149.45 X 151.90 X 151.24	22702	8.429	599.9	26.4	

ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2022-04-23-23** **Date: 16/11/2021**
ct Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
cy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	21-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 6th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	16/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	149.54 X 149.39 X 150.66	22340	8.173	751.3	33.6	33.0
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.42 X 151.02 X 149.05	22717	8.410	749.2	33.0	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.30 X 149.88 X 149.87	22527	8.652	732.7	32.5	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2022-04-23-23** **Date: 26/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

mer's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 21-10-21

mer ID : Cement Concrete Pavement - Asraya Layout 6th Cross Road

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 26/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	149.39 X 149.43 X 151.93	22323	8.253	621.4	27.8	27.1
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	150.28 X 151.19 X 151.70	22720	8.467	610.3	26.9	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	26/10/2021	151.27 X 151.07 X 149.58	22852	8.397	609.9	26.7	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2022-04-23-23** **Date: 16/11/2021**
ct Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
cy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	21-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 6th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	16/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	149.34 X 149.74 X 150.55	22363	8.342	749.6	33.5	33.2
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	149.90 X 151.06 X 151.37	22645	8.165	753.4	33.3	
Cement Concrete Pavement - Asraya Layout 6th Cross Road	M30	19/10/2021	16/11/2021	150.67 X 150.93 X 149.24	22741	9.015	745.8	32.8	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 27/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

er's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 22-10-21

er ID : Cement Concrete Pavement - Asraya Layout 8th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 27/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	151.64 X 149.98 X 151.27	22742	8.970	617.2	27.1	27.3
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	150.27 X 151.32 X 151.95	22739	8.136	628.8	27.7	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	149.87 X 150.07 X 150.40	22491	8.529	606.3	27.0	

**ults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 17/11/2021**
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	22-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 8th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	17/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	149.38 X 150.97 X 149.16	22551	8.295	761.9	33.8	33.1
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	151.67 X 149.61 X 149.52	22692	8.486	738.4	32.5	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	151.78 X 149.23 X 149.38	22649	8.297	746.4	33.0	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 27/10/2021**
Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
er's Reference	:	BBMP/EE/BTP/WO/143/2019-20
Receipt	:	22-10-21
er ID	:	Cement Concrete Pavement - Asraya Layout 8th Cross Road
Type /Size	:	150X150X150 mm
grade/Age	:	M30 / 7 Days Compressive Strength
ce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	27/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	151.01 X 150.28 X 150.84	22694	8.761	625.8	27.6	27.4
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	151.62 X 151.59 X 149.19	22983	9.006	636.4	27.7	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	150.65 X 149.00 X 151.78	22447	8.489	604.7	26.9	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2022-04-23-23** **Date: 17/11/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	22-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 8th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	17/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	151.99 X 150.26 X 149.24	22839	8.535	769.3	33.7	33.3
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	149.18 X 150.45 X 149.53	22445	8.177	747.9	33.3	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	150.25 X 150.39 X 151.30	22597	8.876	744.8	33.0	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-23-23 **Date: 27/10/2021**

Name : Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

ner's Reference : BBMP/EE/BTP/WO/143/2019-20

Receipt : 22-10-21

ner ID : Cement Concrete Pavement - Asraya Layout 8th Cross Road

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 27/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	149.32 X 151.60 X 150.67	22638	9.059	616.5	27.2	27.0
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	150.94 X 150.14 X 151.72	22662	8.766	625.7	27.6	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	27/10/2021	149.01 X 151.49 X 149.26	22573	8.137	589.3	26.1	

sults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2022-04-23-23** **Date: 17/11/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
y	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	22-10-21
mer ID	:	Cement Concrete Pavement - Asraya Layout 8th Cross Road
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	17/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	150.75 X 149.78 X 151.18	22579	8.819	752.2	33.3	33.0
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	151.83 X 150.09 X 149.58	22790	8.150	763.0	33.5	
Cement Concrete Pavement - Asraya Layout 8th Cross Road	M30	20/10/2021	17/11/2021	149.10 X 151.02 X 151.15	22517	8.274	725.5	32.2	

esults obtained are satisfactory as per standard requirements.

AEE (VRPL)

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2022-04-23-23** **Date: 28/10/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
y	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	25-10-21
mer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	28/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	150.44 X 149.96 X 149.41	22561	8.647	624.5	27.7	27.2
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	149.77 X 151.46 X 151.09	22685	8.655	629.5	27.7	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	149.39 X 150.28 X 150.37	22451	9.037	588.6	26.2	

esults obtained are satisfactory as per standard requirements.

AEE (VRP) SB

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2022-04-23-23** **Date: 18/11/2021**
ct Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
cy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	25-10-21
mer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	18/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	150.08 X 150.85 X 151.98	22638	8.375	748.1	33.0	33.0
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	150.72 X 150.76 X 149.96	22722	8.561	750.8	33.0	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	150.39 X 151.89 X 150.26	22843	8.678	752.0	32.9	

esults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2022-04-23-23** **Date: 28/10/2021**
t Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
y	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
f Receipt	:	23-10-21
mer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	28/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	150.54 X 151.80 X 149.96	22852	8.134	628.7	27.5	27.1
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	151.62 X 150.53 X 149.33	22822	8.412	620.0	27.2	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	149.29 X 151.96 X 149.77	22686	8.883	607.3	26.8	

esults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2022-04-23-23** **Date: 18/11/2021**
ect Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
mer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
of Receipt	:	23-10-21
mer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	18/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	149.20 X 150.77 X 151.60	22495	9.077	748.9	33.3	32.7
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	149.55 X 151.44 X 150.37	22648	8.941	744.6	32.9	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	150.49 X 151.05 X 150.19	22732	8.726	727.7	32.0	

results obtained are satisfactory as per standard requirements.

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Date: 28/10/2021

ID	:	**CP-2022-04-23-23**
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cy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
omer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
of Receipt	:	23-10-21
omer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	28/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	149.98 X 151.11 X 151.76	22664	8.729	612.8	27.0	26.9
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	151.11 X 149.45 X 150.94	22583	8.593	619.6	27.4	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	28/10/2021	150.86 X 150.70 X 151.50	22735	8.158	596.3	26.2	

esults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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ID	:	**CP-2022-04-23-23** **Date: 18/11/2021**
ect Name	:	Improvements to Roads and Drains At Ramachandrapura and surrounding area in Ward No.11 Kuvempunagara.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure developrs Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
omer's Reference	:	BBMP/EE/BTP/WO/143/2019-20
of Receipt	:	23-10-21
omer ID	:	Cement Concrete Pavement - Kuvempu Nagara 1st Phase
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	18/11/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	149.81 X 149.01 X 149.56	22323	8.163	755.4	33.8	33.0
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	151.71 X 151.38 X 149.15	22966	8.901	758.0	33.0	
Cement Concrete Pavement - Kuvempu Nagara 1st Phase	M30	21/10/2021	18/11/2021	149.45 X 150.98 X 150.71	22565	8.878	726.3	32.2	

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